## What is claimed is:

A lighting apparatus for emitting white light comprising:

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- a semiconductor light source emitting radiation having a wavelength in the range of from about 250 to about 550 nm;
- a phosphor composition radiationally coupled to the semiconductor light source, the phosphor composition comprising a blue emitting phosphor, a red emitting phosphor and a green emitting phosphor comprising  $Na_2(Ln_{1-y-z}Ce_yTb_z)_2B_2O_7$ , wherein Ln is selected from the group consisting of La, Y, Gd, Lu, Sc and combinations thereof and wherein y = 0.01-0.3 and z = 0.01-0.3.
- 2. The lighting apparatus of claim 1, wherein the semiconductor light source is a light emitting diode (LED).
- 3. The lighting apparatus of claim 2, wherein the LED comprises a nitride compound semiconductor represented by the formula  $In_iGa_jAl_kN$ , where  $0 \le i$ ;  $0 \le j$ ,  $0 \le K$ , and i+j+k=1.
- 4. The lighting apparatus of claim 1, wherein the phosphor composition is coated on the surface of the semiconductor light source.
- 5. The lighting apparatus of claim 1, further comprising an encapsulant surrounding the semiconductor light source and the phosphor composition.
- 6. The lighting apparatus of claim 1, wherein the phosphor composition is dispersed in the encapsulant.
- 7. The lighting apparatus of claim 1, further comprising a reflector cup.
- 8. The lighting apparatus of claim 1, wherein the green emitting phosphor comprises  $Na_2(Gd_{0.85}Ce_{0.05}Tb_{0.10})_2B_2O_7$ .

- 9. The lighting apparatus of claim 1, wherein said phosphor composition further comprises at least one of a blue-green emitting phosphor, an yellow-orange emitting phosphor, an orange emitting phosphor and a deep red emitting phosphor.
- 10. The lighting apparatus of claim 9, wherein said phosphor composition comprises a spectral weight of 0.0-0.4 of the blue phosphor, about 0.05-0.6 of the  $Na_2(Ln_{1-y-z}Ce_yTb_z)_2B_2O_7$  phosphor, about 0.05-0.55 of the red phosphor, and about 0.0-0.75 of the yellow-orange phosphor.
- 11. The lighting apparatus of claim 1, wherein the green emitting phosphor comprises  $Na_2(Ln_{1-y}Ce_y)_2B_2O_7$ , wherein Ln is selected from the group consisting of La, Y, Gd, Lu, Sc and combinations thereof and wherein y = 0.01-0.3.
- 12. The lighting apparatus of claim 1, wherein said blue emitting phosphor is selected from the group consisting of  $(Ba,Sr,Ca)_5(PO_4)_3(Cl,F,Br,OH)$ :  $Eu^{2+}$ ,  $Mn^{2+}$ ;  $Sb^{3+}$ , $(Ba,Sr,Ca)MgAl_{10}O_{17}$ : $Eu^{2+}$ ;  $(Ba,Sr,Ca)BPO_5$ : $Eu^{2+}$ ;  $(Sr,Ca)_{10}(PO_4)_6$ \* $nB_2O_3$ : $Eu^{2+}$ ;  $2SrO*0.84P_2O_5*0.16B_2O_3$ : $Eu^{2+}$ ;  $Sr_2Si_3O_{8*2}SrCl_2$ : $Eu^{2+}$ ;  $Ba_3MgSi_2O_8$ : $Eu^{2+}$ ;  $Sr_4Al_{14}O_{25}$ : $Eu^{2+}$ ; and  $BaAl_8O_{13}$ : $Eu^{2+}$ .
- 13. The lighting apparatus of claim 1, wherein said red phosphor is selected from the group consisting of  $(Gd,Y,Lu,La)_2O_3:Eu^{3+},Bi^{3+};$   $(Gd,Y,Lu,La)_2O_2S:Eu^{3+},Bi^{3+};$   $(Gd,Y,Lu,La)VO_4:Eu^{3+},Bi^{3+};$   $(Ca,Sr)S:Eu^{2+};$   $SrY_2S_4:Eu^{2+};$   $CaLa_2S_4:Ce^{3+};$   $(Ca,Sr)S:Eu^{2+};$   $3.5MgO*0.5MgF_2*GeO_2:Mn^{4+}$  (MFG);  $(Ba,Sr,Ca)MgP_2O_7:Eu_{2+},Mn^{2+};$   $(Y,Lu)_2WO_6:Eu^3+,$   $Mo^{6+};$   $(Sr,Ca,Ba)_3MgSi_2O_8:Eu^{2+},Mn^{2+};$  and  $(Ba,Sr,Ca)_2SiO_4:Eu^{2+}.$
- 14. The lighting apparatus of claim 1, wherein the semiconductor light source emits radiation having a wavelength of from 370-500 nm.

- 15. The lighting apparatus of claim 14, wherein the semiconductor light source emits radiation having a wavelength of from 400-410 nm.
- 16. A composition of matter having the formula  $Na_2(Ln_{1-y-z}Ce_yTb_z)_2B_2O_7$ , wherein Ln is selected from the group consisting of La, Y, Gd, Lu, Sc and combinations thereof and wherein y = 0.01-0.3 and z = 0.0-0.3.
- 17. The composition according to claim 16, wherein said composition is capable of emitting light having a peak emission at about 545 nm when excited with light having a wavelength of 405 nm.
- 18. The composition according to claim 16, wherein the composition has the formula  $Na_2(Gd_{0.85}Ce_{0.05}Tb_{0.10})_2B_2O_{7.}$
- 19. The composition according to claim 16, wherein said composition is suitable for use as a phosphor for converting UV light to visible green light in an UV LED lighting system.
- 20. The composition according to claim 16, wherein said composition is suitable for use as a green emitting component of a phosphor blend for use in an LCD backlight.
- 21. A method for forming a lighting apparatus, the method comprising the steps of:

providing an LED capable of emitting radiation having a wavelength of about 250-550 nm;

radiationally coupling a phosphor composition to the LED, the phosphor composition comprising a blue emitting phosphor, a red emitting phosphor and a green emitting phosphor comprising  $Na_2(Ln_{1-y-z}Ce_yTb_z)_2B_2O_7$ , wherein Ln is selected from the group consisting of La, Y, Gd, Lu, Sc and combinations thereof and wherein y = 0.01-0.3 and z = 0.0-0.3;

wherein the phosphor composition is capable of absorbing

the radiation emitted by the semiconductor light source and converting the radiation into white light.

- 22. The method according to claim 21, wherein the step of providing an LED is performed by providing a UV/blue LED having an emission wavelength of from 370-500 nm.
- 23. A phosphor blend comprising a blue emitting phosphor, a red emitting phosphor and a green emitting phosphor comprising  $Na_2(Ln_{1-y-z}Ce_yTb_z)_2B_2O_7$ , wherein Ln is selected from the group consisting of La, Y, Gd, Lu, Sc and combinations thereof and wherein y = 0.01-0.3 and z = 0.0-0.3.
- 24. The phosphor blend of claim 23, wherein said phosphor blend is capable of absorbing the radiation emitted by a semiconductor light source emitting from 370-500 nm and converting the radiation into white light.